

## **Mcclellan, Barbara A (DFW)**

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**From:** Willapa Bay (DFW)  
**Sent:** Thursday, October 14, 2021 8:17 AM  
**Subject:** Willapa Bay Fisheries Update  
**Attachments:** 2021 WB Marine Area Recreational Data & Catch Estimate Summary Draft 10.13.2021.pdf; 2021 WB Hatchery Chinook Eggtake 10.13.2021.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi Everyone,

This email will provide you an in-season update on Willapa Bay fisheries and hatchery information since mid-September (statistical weeks 38 – 41).

### **Recreational Marine Fishery**

We completed the recreational monitoring in Willapa Bay Marine Area 2.1 on September 29, 2021. Overall, effort and catch were slow during June and July compared to late August and early September. Staff reported the peak of Chinook salmon catch and effort during statistical week 36 (August 30 – September 5), however, coho catch peaked the following statistical week 37 (Sept 6 – 12). Our raw data shows staff sampled over 1,679 boats and 3,612 anglers at the Tokeland and South Bend boat launches during our monitoring efforts (four days per week). Staff sampled 387 Chinook salmon and 218 coho for the season. Our boat survey showed 97.4% of the boats fishing this year in Willapa Bay marine area 2.1 exited the fishery either in Tokeland or South Bend. (See attachment: 2021 WB Marine Area Recreational Data & Catch Estimate Summary Draft 10.13.2021.pdf)

Marine Area 2.1 Recreational Creel Monitoring for 2021 and 2020\*

Year	# Boats Sampled	# Anglers Sampled	# Chinook Sampled	# Coho Sampled	Boat Survey
2021	1,679	3,612	387	218	97.4%
2020	1,866	4,270	346	300	96.3%

*\*These data represent raw data, not estimated expanded values*

### **Hatchery Chinook Rack Returns**

Hatchery staff have been spawning Chinook salmon the last few weeks at both the Nemah and Naselle hatcheries, however, spawning of Chinook salmon at Forks Creek Hatchery has just started this week. Hatchery staff have reported coho are now in the hatcheries at both Naselle and Forks Creek hatcheries. (See Attachment for all three hatchery facilities: 2021 WB Hatchery Chinook Eggtake 10.13.2021.xlsx)

Naselle Hatchery:

The Chinook program release goal for the Naselle Hatchery is 5,000,000 eggs. The increase in production for Naselle is directed at increasing prey availability for Southern Resident Killer Whales (SRKW). To make program goal, 1,833 females are needed. As of this week, there are 5,532,000 Chinook eggs on-hand in the facility. The Chinook salmon hatchery program goal has been met for 2021.

#### Nemah Hatchery:

The Chinook program release goal for the Nemah Hatchery is 3,300,000 eggs. To make program goal, 1,210 females are needed. As of this week, there are 3,711,000 Chinook eggs on-hand in the facility. The Chinook salmon hatchery program goal has been met for 2021.

#### Forks Creek Hatchery:

The Chinook program release goal for Forks Creek Hatchery is 400,000 eggs. To make program goal, 147 females are needed. Hatchery staff have not yet spawned Chinook salmon at Forks Creek but will likely spawn Chinook later this week. There are 105 Chinook salmon currently on-hand in the facility.

### **Spawning Ground Surveys**

Chinook spawning is now in full swing in Willapa Bay. There are Chinook spawning in the majority of our indexes throughout the basin. Staff have reported good numbers of coho in the lower Naselle and Willapa rivers. Chum are beginning to trickle into the lower reaches as well. Chinook spawning should continue to build over the next few weeks as we walk all indexes and supplemental surveys.

### **Commercial Fishery**

Since statistical week 39 (week of September 19-25), the commercial fishery has proceeded as scheduled preseason. The Department is actively monitoring the commercial fishery each day it is open and analyzing the data as quickly as possible. We had to make some changes to the fishery early in the season and those changes and updates can be found on our website. You can find a summary of the total catch for the commercial fishery on our website as well.

If you have any comments or questions specific to the information provided in these emails, please submit your comments to [WillapaBay@dfw.wa.gov](mailto:WillapaBay@dfw.wa.gov).

Additionally, if you know of anyone who might be interested in receiving these in-season update emails or any other information we send out regarding Willapa Bay fisheries, please forward this email and have them reply to [WillapaBay@dfw.wa.gov](mailto:WillapaBay@dfw.wa.gov) stating they would like to be added to our email distribution list.

Thank you and Fish On! ><(((°>  
Barbara McClellan  
Willapa Bay Fisheries Management  
WDFW Region 6 Montesano

*\*\*We want to remind everyone that this distribution list is intended to be a pathway to disseminate information to those who have signed up to hear updates from Region 6 staff, and not a place to air your personal opinions. Folks who abuse the Willapa Bay mailer will be removed from the list without warning.*

Online reference links you may be interested in:

Willapa Bay Marine Area 2.1 Recreational Creel

Monitoring: <https://wdfw.wa.gov/fishing/reports/creel/willapa-bay>

Willapa Bay and Grays Harbor (non-treaty) Commercial Salmon Fisheries (regulations and landed catch): <https://wdfw.wa.gov/fishing/commercial/gillnet#information>

# **In-season Estimates of Effort and Salmon Catch**

updated 10/13/2021

## **2021 Willapa Bay Marine Area Recreational Mark Selective Chinook and Coho Fishery**

All data is preliminary and subject to change

Marked = Adipose fin clipped

Unmarked = Adipose fin not clipped

					Catch Estimates				
Month	Week	Dates	Regulation	Estimated		Retained Chinook		Retained Coho	
				Boats	Anglers	Unmarked	Marked	Unmarked	Marked
June (Ocean Area 2 rules)	25	Jun 19 & 20	No Coho retention allowed	8	26	0	0	0	0
	26	June 21 - 27		9	22	0	0	0	1
	27	June 28 - Jul 4		13	32	0	0	0	0
July (Ocean Area 2 rules)	28	July 5 - 11	No wild Coho retention allowed	26	55	0	0	0	0
	29	July 12 - 18		26	63	0	2	0	3
	30	July 19 - 25		61	135	9	8	0	0
	31	July 26 - Aug 1		20	44	0	3	0	4
Total to Date				163	377	9	13	0	8

Estimated Willapa origin Chinook Impacts	
Unmarked	Marked
0	0
0	0
0	0
0	0
0	1
3	3
0	1
3	4

For June and July, dockside sampling was conducted only at the Tokeland boat launch and marina

						Estimated Catch						Estimated Encounters			Estimated Catch		
						Retained Chinook						Released Chinook			Retained Coho		
Month	Week	Dates	Regulation	Estimated		Marked	Marked CPUE	Marked WB origin impacts	Unmarked	UM CPUE	UM WB origin impacts	Unmarked Encounters	UM CPUE	UM WB origin impacts	Marked	Marked CPUE	Unmarked
				Boats	Anglers												
August	31	8/1/2021 only	No wild coho or wild Chinook retention allowed	57	129	17	0.128	10	0	0.000	0	8	0.064	1	0	0.000	0
	32	Aug 2 - 8		301	633	59	0.094	37	0	0.000	0	20	0.032	2	6	0.009	0
	33	Aug 9 - 15		371	794	86	0.108	53	0	0.000	0	27	0.034	2	0	0.000	0
	34	Aug 16 - 22		591	1,317	145	0.110	90	0	0.000	0	69	0.052	6	3	0.002	2
	35	Aug 23 - 29		504	1,066	153	0.144	95	0	0.000	0	109	0.102	9	21	0.019	0
September	36	Aug 30 - Sept 5		710	1,529	220	0.144	136	0	0.000	0	136	0.089	12	124	0.081	0
	37	Sept 6 - 12		480	1,022	39	0.039	24	0	0.000	0	59	0.058	5	159	0.156	0
	38	Sept 13 - 19		200	404	25	0.061	15	0	0.000	0	19	0.048	2	145	0.358	0
	39	Sept 20 - 26		52	109	0	0.000	0	0	0.000	0	0	0.000	0	0	0.000	0
	40	Sept 27 - 30		2	2	0	0.000	0	0	0.000	0	0	0.000	0	0	0.000	0
Total to Date				3,267	7,004	744		461	0		0	448		39	458		2

These data represent the estimated expanded values (not raw data).

No jacks included in estimates.

For Aug and Sept., dockside sampling was conducted at Tokeland and South Bend

Strata 1 - Mon - Thurs

Strata 2 - Fri - Sun

CPUE = Catch per unit effort

Effort = An individual angler trip



# 2021 Willapa Bay Origin PreSeason Recreational Data

Preliminary/Draft  
Updated 10/13/2021

Willapa Bay Natural-Origin Fall Chinook							Willapa Bay Hatchery-Origin Fall Chinook				
Mgmt Wk	Date	Harvest Rate Proportions	Preseason Prediction		In-season Estimate		Harvest Rate Proportions	Preseason Prediction		In-season Estimate	
			NOR	Cumulative Total	WB Origin	Cumulative Total		HOR	Cumulative Total	WB Origin	Cumulative Total
25	6/19 - 6/20	0.0338	0	0	0	0	0.0048	0	0	0	0
26	6/21 - 6/27	0.0338	0	0	0	0	0.0048	0	0	0	0
27	6/28 - 7/4	0.0338	3	3	0	0	0.0048	4	4	0	0
28	7/5 - 7/11	0.0204	2	4	0	0	0.0072	6	10	0	0
29	7/12 - 7/18	0.0970	7	11	0	0	0.0089	8	18	1	1
30	7/19 - 7/25	0.0532	4	15	3	3	0.0312	27	44	3	3
31	7/26 - 8/1	0.1146	8	24	1	4	0.0278	24	68	11	14
32	8/2 - 8/8	0.0807	6	30	2	5	0.1114	95	163	37	51
33	8/9 - 8/15	0.0853	6	36	2	8	0.1449	124	287	53	104
34	8/16 - 8/22	0.1363	10	46	6	14	0.2190	187	474	90	194
35	8/23 - 8/29	0.1552	11	57	9	23	0.2398	205	678	95	289
36	8/30 - 9/5	0.0755	6	63	12	35	0.1169	100	778	136	425
37	9/6 - 9/12	0.0791	6	69	5	40	0.0634	54	832	24	449
38	9/13 - 9/19	0.0178	1	70	2	42	0.0211	18	850	15	465
39	9/20 - 9/26	0.0384	3	73	0	42	0.0013	1	851	0	465
40	9/27 - 9/30	0.0128	1	74	0	42	0.0010	1	852	0	465
			74		42	0.563			853	465	0.545

## 2021 Willapa Bay CHINOOK Broodstock Summary

FishBooks

updated 10/14/2021

preliminary/draft

### Naselle Hatchery

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)			Put Upstream above weir		
									Females	Males	Jacks	Females	Males	Jacks
5,000,000	500,000	5,500,000	3,000	1,833	1,844	0	500	5,532,000	168	159	6	130	285	3

### Nemah Hatchery

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)			Put Upstream above dam		
									Females	Males	Jacks	Females	Males	Jacks
3,300,000	330,000	3,630,000	3,000	1,210	1237	0	133	3,711,000	1,027	1,071	21	247	602	6

### Forks Creek Hatchery

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)		
									Females	Males	Jacks
400,000	40,000	440,000	3,000	147	0	147	105	0	0	0	0